

CLAIM: I CLAIM:

1. Saponins are anticancer agents for treating and preventing mammal primary or metastatic cancer diseases.
- 5 2. The saponins of claim 1, wherein said the saponins are plant-derived saponins.
3. The saponins of claim 2, wherein said plant-derived saponins are Quillaja saponins.
4. The saponins of claim 1, wherein said the saponins include but not limited to, sapogenins, and its prosapogenins with one or more sugar moieties.
5. The Quillaja saponins of claim 3, wherein said Quillaja saponins comprise a group of
10 saponins containing more than 25 subfractions, and being sorted into following fragments:
 - (a). QSF-I,
 - (b). QSF-II,
 - (c). QSF-III,
 - 15 (d). QSF-IV
6. The Quillaja saponins of claim 5, wherein said QSF-I and II comprise subfractions of F1 to 9 isolated from *Quillaja saponaria Molina* (soap tree).
7. The Quillaja saponins of claim 5, wherein said QSF-III comprises subfractions of F10 to 14 isolated from *Quillaja saponaria Molina* (soap tree).
- 20 8. The Quillaja saponins of claim 5, wherein said QSF-IV comprises subfractions of F15 to 25 isolated from *Quillaja saponaria Molina* (soap tree).
9. The saponins of claim 1, wherein said cancer diseases are developed from:
 - (a). Ectodermic originated tissues
 - (b). Mesodermic originated tissues
 - 25 (c). Endodermic originated tissues
10. The saponins of claim 1, wherein said anticancer agents are pharmaceutical compositions for treatment or prevention of cancer disease, comprising but not limited:
 - (a). One saponin isolated from *Quillaja saponaria Molina* (soap tree).
 - 30 (b). Multiple saponins isolated from *Quillaja saponaria Molina* (soap tree).
 - (c). Saponin(s) in combination with other anticancer therapeutic agents.

(d). Saponin(s) in combination with biodegradable releasing chemicals.

11. The saponins of claim 1, wherein said anticancer agents are pharmaceutical formulations for treatment or prevention of cancer disease, comprising but not limited:

5 (a). Injection formula.

(b). Peroral formula.

(c). Spray formula.

(d). Suppository formula.

(e). Topical application or dressing formula.

10 12. The saponins of claim 1, wherein said anticancer agents are supplementary compositions, comprising but not limited:

(a). One saponin isolated from *Quillaja saponaria Molina* (soap tree).

(b). Multiple saponins isolated from *Quillaja saponaria Molina* (soap tree).

(c). Saponin(s) in combination with other supplementary elements

15 13. The saponins of claim 1, wherein said anticancer comprises but not limited:

(a). Cancer killer.

(b). Cancer inhibitor.

(c). Cancer prevention.

(d). Anticancer potentiator.

20 14. The anticancer of claim 13, wherein said cancer killer is that saponins can directly or indirectly kill cancer cells in vitro or in vivo.

15. The anticancer claim 13, wherein said cancer inhibitor is that saponins can directly or indirectly inhibit cancer cell growth in vitro or in vivo.

25 16. The anticancer of claim 13, wherein said cancer prevention is that saponins can directly or indirectly prevent cancer occurrence or reoccurrence.

17. The anticancer of claim 13, wherein said anticancer potentiator is that saponins can directly or indirectly enhance anticancer activity of other cancer therapeutic agents.

18. The closure of claim 1, wherein said mammal is human being.